CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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		CRET NFORMATION		25 X 1
COUNTRY	Czechoslovakia	REPORT		
SUBJECT	Tire Cord Plant in Velka nac Velickou	d DATE DIST	3 June, 1953	٠
DATE OF	INFO.	REQUIREME	NT	25)
PLACE AC	QUIRED	REFERENCE	s	
. ·	This is UNEVALUATED Information			25 X 1
	THE APPRAISAL OF	IN THIS REPORT ARE DEFINITIVE. CONTENT IS TENTATIVE. 'SEE REVERSE)		
1.	18 km. due east from Straznice, and 1951 by the Svit Mational En	4854N-1719E/ was built terprise, in Gottwaldo	lickou /about between 1947 v. Production	5X1
1.	The plant for production of tire 18 km. due east from Straznice, and 1951 by the Svit National Enstarted there in spring 1951. Tof the old Bata tire cord plant construction was headed by (fnu) cord production at the Bata Work manager of the new plant in Velke of a one-story main production he	4854N-1719E was built terprise, in Gottwaldo his plant was construction Otrokovice 4912N-1 Micek and (fnu) Berny s. Berny was later ap a nad Velickou. The pall, 100 m. x 100 m. w	lickou /about between 1947 v. Production ted on the model 732E7. The , experts for pointed general lant consisted	5X1
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	The plant for production of tire 18 km. due east from Straznice, and 1951 by the Svit National En- started there in spring 1951. In of the old Bata tire cord plant : construction was headed by (fnu) cord production at the Bata Works manager of the new plant in Velks of a one-story main production he roof, and of a few auxiliary buil- The plant was equipped with ordin the English firms Flatt and Tweed double-cord twisting machine with brought on trial. machine is shown in Annex B, Figure viscose rayon yarn production of tire cords in this Otrokovice, which produced cotton and was able to meet the entire (Moreover, Czechoslovakia suffered rayon yarn was probably brought Rudnik /In the Krkonose Mountains miru, National Enterprise, in Bre	4854N-1719E was built terprise, in Gottwaldo his plant was construct in Otrokovice [4912N-1] Micek and (fnu) Berny s. Berny was later ap a nad Velickou. The pall, 100 m. x 100 m. w ldings. mary cord twisting mad dale & Smalley. In ad ha limited number of [A] double-twist spindlure C]. In was the chief materi plant, as the Bata plus nyarn tire cords, had Czechoslovak demand fod from shortages of coto the plant in Velka s near Vrchlabi, 5038N atislava, a new plant	lickou /about between 1947 v. Production ted on the model 732E/. The , experts for pointed general lant consisted ith a shed-type hines produced by dition, one spindles was e of this al used for ant in a large capacity r cotton cords. tton. The viscose mad Velickou from -1536E/ or from Zavod	25X1 25X1
2.	The plant for production of tire 18 km. due east from Straznice, and 1951 by the Svit National En- started there in spring 1951. The of the old Bata tire cord plant construction was headed by (fnu) cord production at the Bata Works manager of the new plant in Velks of a one-story main production he roof, and of a few auxiliary built The plant was equipped with ordin the English firms Flatt and Tweed double-cord twisting machine with brought on trial, machine is shown in Annex B, Figure viscose rayon yarn production of tire cords in this Otrokovice, which produced cotton and was able to meet the entire (Moreover, Czechoslovakia suffered rayon yarn was probably brought Rudnik /In the Krkonose Mountains	4854N-1719E was built terprise, in Gottwaldo his plant was construct in Otrokovice [4912N-1] Micek and (fnu) Berny s. Berny was later apa nad Velickou. The pall, 100 m. x 100 m. wldings. mary cord twisting mace dale & Smalley. In adding the alimited number of [4] double-twist spindlure C7. In was the chief materi plant, as the Bata plant, as the Bata plant plant, as the Bata plant of the plant in Velka s near Vrchlabi, 5038N atislava, a new plant as produced.	lickou /about between 1947 v. Production ted on the model 73257. The , experts for pointed general lant consisted ith a shed-type hines produced by dition, one spindles was e of this al used for ant in a large capacity r cotton cords. tton. The viscose mad Velickou from -153657 or from Zavod where viscose rayon yar	25X1 25X1

(Note: Washington Distribution Indicated By "X"; Field Distribution By "#".)

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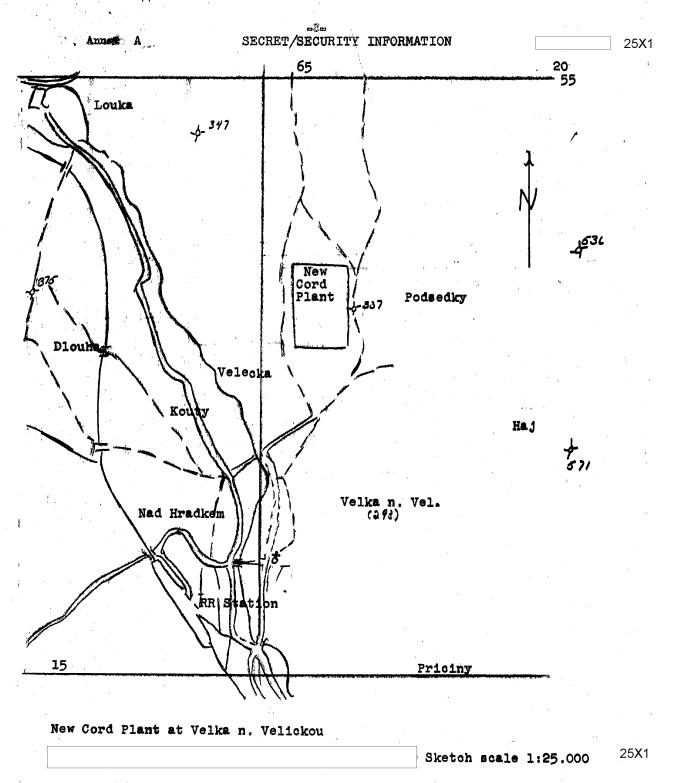
- The viscose rayon yarn arrived at the cord plant spun on cones of a large diameter. Any cotton yarn which was used at the plant first would be processed in a cotton spinning mill and spun from spinning spools to cones on a high-speed spinning machine of the Rottekoner type. One process was used both for cotton yarn and viscose rayon yarn at the tire cord plant. The yarn was wound from the cones onto the beams of a high-speed warping machine of the Schlafthorst type to form rolls 1,300 mm. and 500 mm. long. The rolls of yarn were then processed on twisting machines. There were two kinds of twisting machines, and the yarn had to be processed on both kinds of machines in succession. Each twisting machine twisted two rolls of yarn at a time. The first one, a single-end cord twisting machine \(\sum_{\text{Mindex}} \mathbb{B} \), \(\subseteq \text{Fig. A} \subseteq \text{ twisted every single yarn separately, making Z-shaped twists. The second twisting machine, a twisting and doubling machine \(\subseteq \text{A} \subseteq \text{ twisted every single yarn separately, making Z-shaped twists. The second twisting machine, a twisting and doubling machine \(\subseteq \text{A} \subseteq \text{ twisted every single yarn separately, making Z-shaped twists. These cords on spools were woven on looms of the Northrop type into cord fabrics. The cord fabrics were wrapped in paper and sent to tire factories in Gottwaldov and Puchov \(\subseteq \subseteq 08N-1820E \subseteq \).
- 5. For production of tire cords from viscose rayon yarn, a temperature of 20°C and humidity of 60% were needed in the production hall. These special atmospheric conditions were achieved by means of air conditioning equipment manufactured at the Svit plant in Gottwaldov. The ventilators for this equipment were supplied by the North Bohemian Fat Factories, National Enterprise (Severoceske tukove zavody n.p.), formerly the Schicht Works, in Usti nad Labem.

Sne Kinexe	A:	New	Cord	Plant	at	Velka.	n.	Velickou
	B :							Machines

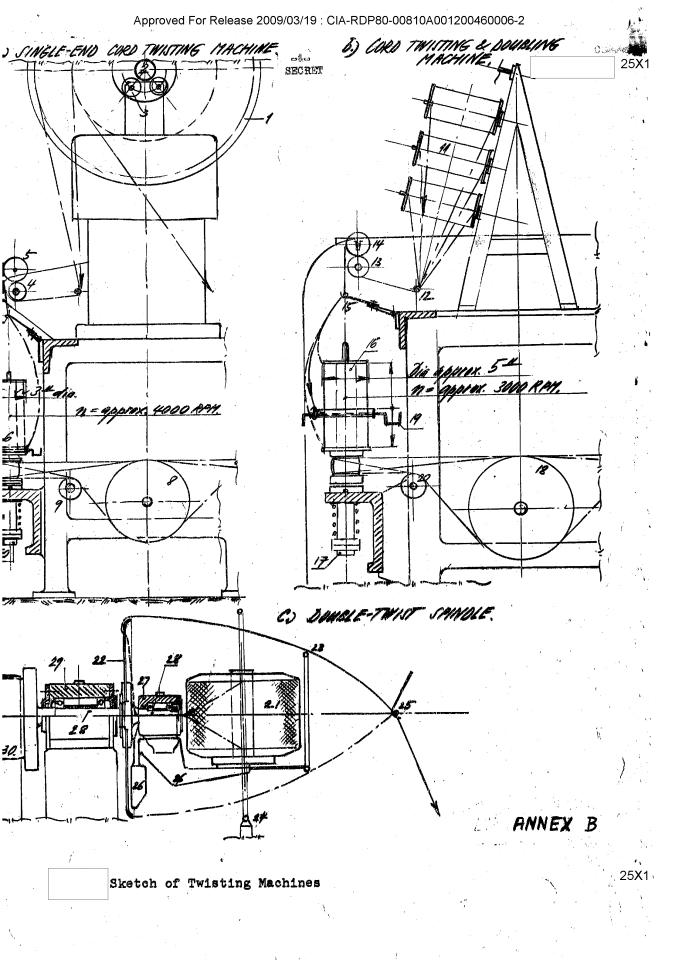
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SECRET/SECURITY INFORMATION

Amer B (Cont'd) SECRET/SECURITY INFORMATIONS

25X1

Legend

- a. Single-end cord twisting machine
 - 1. Beam with rayon or cotton yarn
 - 2. Shaft
 - 3. Ball bearings
 - 4. Rollers for withdrawing the yarn
 - 5. Rollers for drawing the yarn near
 - 6. Speol
 - 7. Pigtail
 - 8. Spindle driving drum
 - 9. Driving pulley
 - 10. Roller bearing spindle
- b. Cord doubling and twisting machine
 - 11. Spools with twisted single yarn
 - 12. Rod
 - 13. Rollers for withdrawing the yarn
 - 14. Rollers for drawing the yarn near
 - 15. Pigtail
 - 16. Spool
 - 17. Spindle
 - 18. Spindle driving drum
 - 19. Ring rail
 - 20. Driving pulley
- c. Double twist spindle
 - 21. Stationary spool
 - 22. Rotating disc with an eyelet
 - 23. Ring preventing the twisted yarn from becoming entangled with the spool
 - 24. Ring preventing the rayon balloon from overrunning
 - 25. Pigtail
 - 26. Weight arm resting through bearing assembly (Point #27) on the spindle (Point #28)
 - 27. Bearing assembly
 - 28. Spindle
 - 29. Spindle bearing
 - 30. Driving pulley.

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